

of a sheet of plastic acetate. When the operation cannot be previewed, the overlay may resist peeling to clearly indicate that the option is not available.

[0077] In an embodiment illustrated in FIG. 12, deformation of the cover 120 may be used by the user to control aspects of the electronic device 110. For example, as the user flicks a corner of the cover 120, the display screen 112 of the electronic device 100 may scroll the contents being displayed. Different input gestures, such as bending different parts of the cover 120 or twisting the cover 120, for example, may be used to control different functions of the electronic device 110, which may provide a flexible input on an otherwise rigid electronic device 110.

[0078] FIG. 13 illustrates a method 1300 in accordance with embodiments of the invention. At 1310, an input gesture that includes deformation and/or movement of the cover 120 relative to the electronic device 110 is sensed or detected by the sensor 170 described above. At 1320, an action for the electronic device 110 to perform is determined, based on the input gesture, by the processor 130 described above. At 1330, a haptic effect to be generated based on the input gesture and/or the action for the electronic device 110 to perform is determined by the processor 130. At 1340, the action for the electronic device 110 to perform is initiated by the processor 130. At 1350, the haptic effect is generated with the haptic output device 180 during and/or after the sensing of the input gesture. The method 1300 may be repeated.

[0079] The embodiments described herein represent a number of possible implementations and examples and are not intended to necessarily limit the present disclosure to any specific embodiments. Various modifications can be made to these embodiments as would be understood by one of ordinary skill in the art. Any such modifications are intended to be included within the spirit and scope of the present disclosure and protected by the following claims.

What is claimed is:

1. A system comprising:
 - an electronic device comprising a display screen;
 - a cover configured to cover the display screen;
 - a sensor configured to sense an input gesture comprising deformation and/or movement of the cover relative to the electronic device;
 - a processor configured to determine an action for the electronic device to perform based on the input gesture, to determine a haptic effect to generate based on the input gesture and/or the action for the electronic device to perform, and to initiate the action; and
 - a haptic output device configured to generate the haptic effect.
2. The system according to claim 1, wherein the sensor is selected from the group consisting of: a bend sensor, a light sensor, a pressure sensor, a contact sensor, a potentiometer, an angular sensor, an angular velocity sensor, an accelerometer, and a magnetic sensor.
3. The system according to claim 1, wherein the haptic output device comprises an actuator configured to generate vibrations.
4. The system according to claim 3, wherein the cover comprises the actuator.
5. The system according to claim 3, further comprising a hinge connecting the cover to the electronic device, wherein the hinge comprises the actuator.

6. The system according to claim 1, wherein the haptic output device is embedded in the cover and comprises an electro-rheological or magneto-rheological fluid to control a stiffness of the cover.

7. The system according to claim 1, wherein the haptic output device comprises an electrostatic friction device configured to generate a friction effect at a surface of the cover.

8. The system according to claim 7, wherein the surface of the cover faces the electronic device when the cover covers the display screen.

9. A method comprising:

- sensing an input gesture comprising deformation and/or movement of a cover for an electronic device relative to the electronic device with a sensor;
- determining an action for the electronic device to perform based on the input gesture with a processor;
- determining a haptic effect to generate based on the input gesture and/or the action for the electronic device to perform with the processor;
- initiating the action for the electronic device to perform with the processor; and
- generating the haptic effect with a haptic output device during and/or after the sensing of the input gesture.

10. The method according to claim 9, wherein the haptic effect is generated during the sensing of the input gesture.

11. The method according to claim 9, wherein the haptic effect is generated after the sensing of the input gesture.

12. The method according to claim 9, wherein the haptic effect is generated after the action is completed to confirm completion of the action.

13. The method according to claim 9, wherein the haptic effect comprises resisting peeling of the cover away from the electronic device.

14. The method according to claim 9, wherein the haptic effect comprises creating a texture when the cover is peeled away from the electronic device.

15. The method according to claim 9, wherein the haptic effect comprises changing a stiffness of the cover.

16. The method according to claim 9, wherein the haptic effect comprises a tactile sensation on a surface of the cover facing the electronic device when the cover covers the electronic device.

17. The method according to claim 9, wherein the haptic effect comprises a tactile sensation on a top surface of the cover opposite a surface facing the electronic device when the cover covers the electronic device.

18. The method according to claim 9, further comprising determining whether the action can be initiated, wherein the haptic effect comprises resisting the deformation when the action cannot be initiated.

19. The method according to claim 9, wherein the haptic effect comprises actuating at least one hinge located along at least one crease in the cover to fold the cover at the crease.

20. The method according to claim 9, wherein the haptic effect comprises restricting movement of the cover to a predetermined angle relative to the electronic device based on the action.

21. A cover for an electronic device, the cover comprising:

- a sensor configured to sense an input gesture comprising deformation and/or movement of the cover relative to the electronic device; and